OPTAC Download Tool
User Manual

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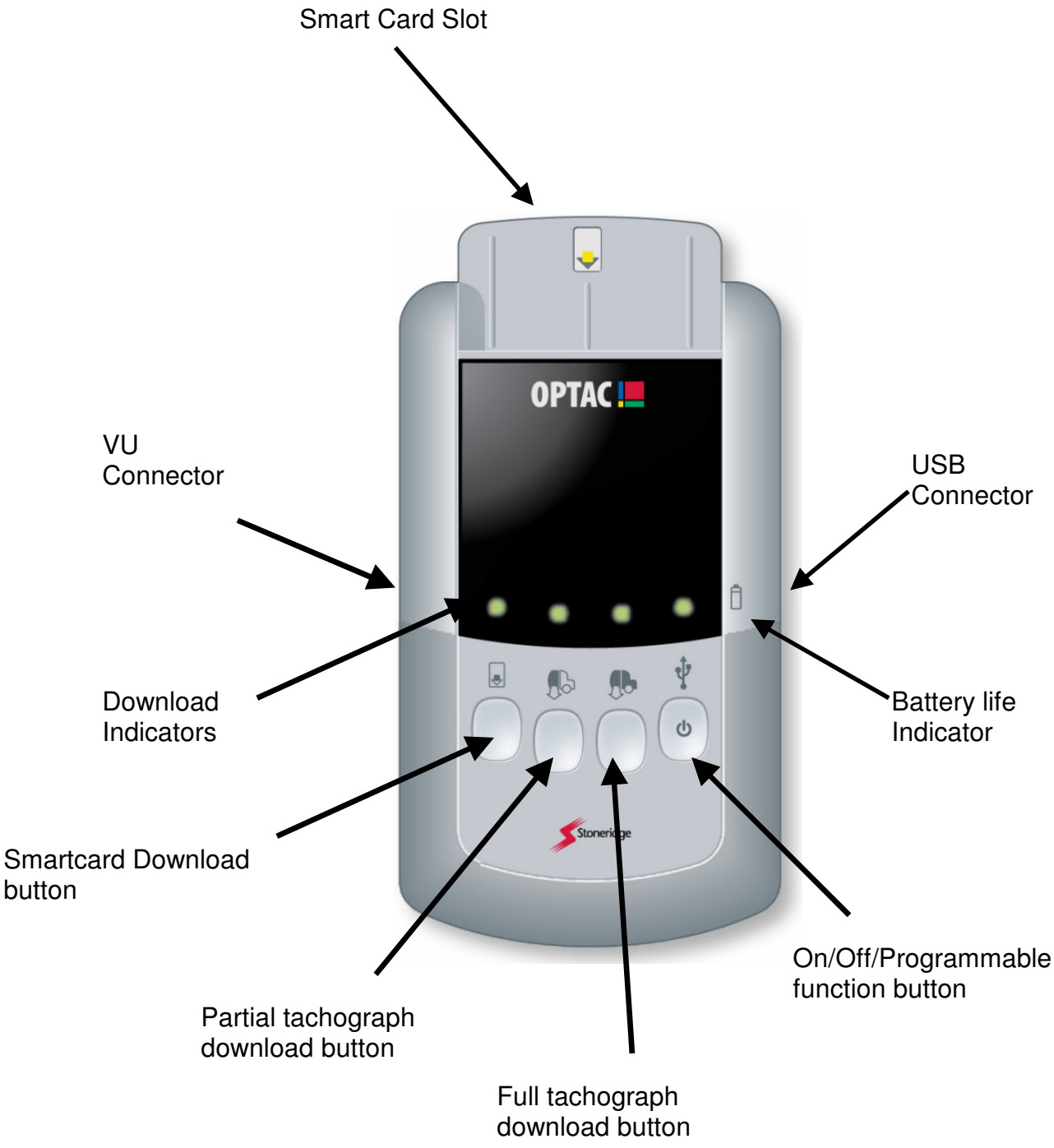
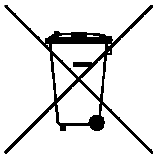
FIGURE 1: OPTAC DOWNLOAD TOOL OUTLINE



1 TERMINOLOGY

- VU: A digital tachograph which records driver and vehicle information and is used to control the driver's legal hours of work.



In the European Union, this label indicates that this product should not be disposed of with household waste.
Is should be deposited at an appropriate facility to enable recovery and recycling.
This product may be returned to the distributor in your country for recycling, or in the UK, returned directly to Stoneridge Electronics, Charles Bowman Avenue, Dundee, DD4 9UB

2 INTRODUCTION

2.1 What does the OPTAC Download Tool do ?

- The OPTAC Download Tool is a flexible device designed to work with data from a VU (Vehicle Unit/ Digital Tachograph), driver and workshop smartcards. The main functions are:
- Downloads data from the VU (Digital Tachograph).
- Downloads data from driver and workshop Smartcards.
- Copies the data in the download tool to a memory stick.
- Interfaces with the OPTAC software range.
- Can typically store 20 full VU downloads or 500 smart cards.

2.2 With which VU Types can the Tool be used ?

The OPTAC Download Tool can be used with all Type Approved VU's.

3 PREPARATION FOR USE

3.1 Power Supply

The OPTAC Tool is powered by 2 x AA batteries. To insert the batteries, remove the battery cover on the rear of the Download Tool and insert as indicated in the battery compartment. Replace the battery cover.

When the unit is switched on, the light next to the battery symbol , will show the battery power status.
If the batteries are running low, the light will flash red. If the batteries are sufficiently charged the light will be shown as flashing green.
Please note downloads should only be performed when the batteries are sufficiently charged.

3.2 Connectors.

The OPTAC Tool has one slot at the top of the unit and connectors on the left and right hand sides.

A. Smart card slot. For reading data from driver and workshop smart cards.

B. VU Download Connector. For reading data from the VU using the cable supplied

C. USB Connector. For uploading the download tools contents to the PC using the cable supplied, or copying the contents to a memory stick.

3.3 Functions of the Buttons

Smartcard - Download data from driver and workshop smart cards.

Partial VU download - Download data since the last VU download.

Full VU download - Download the full VU memory

Power/Programmable - Used for turning the Download Tool on/off, to copy the data to a memory stick or to perform a special download.

3.4 Switching On/Off

To switch on the OPTAC Download Tool, press and hold the above Power button on the Tool for approx 3 seconds until the battery indication light displays green or red. The battery light will remain flashing until the Download Tool is used or it is switched off. The Download Tool will give an audible sound when the unit switches on.

To switch off the unit press and hold the Power button for approx 3 seconds. The Download Tool will give an audible sound when the unit switches off.

If no user interaction takes place with the OPTAC Download Tool for a period of 1 hour, the tool will automatically switch off. This is a power saving feature.

3.5 Programmable Button

Once the OPTAC tool is powered up this Button can be used for special functions.
If a memory stick is inserted and this Button is pressed, the Download Tool will copy its contents to a memory stick.
If a memory stick is not inserted and this Button is pressed, the tool will perform a special download, please ensure the VU Cable is attached when performing Special Downloads from the VU. The software to configure the programmable button is currently only available as part of the OPTAC Fleet Viewer software.

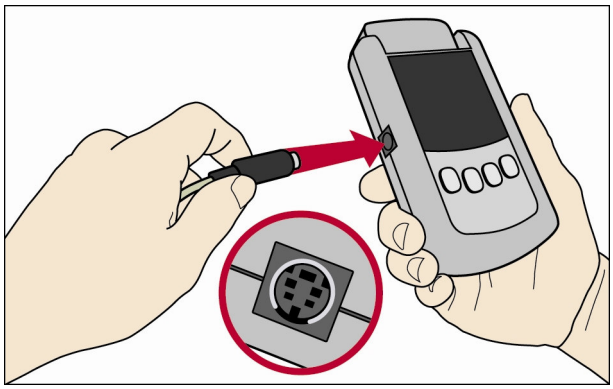
3.6 Downloading

This section will illustrate how to perform a VU or Smartcard download.

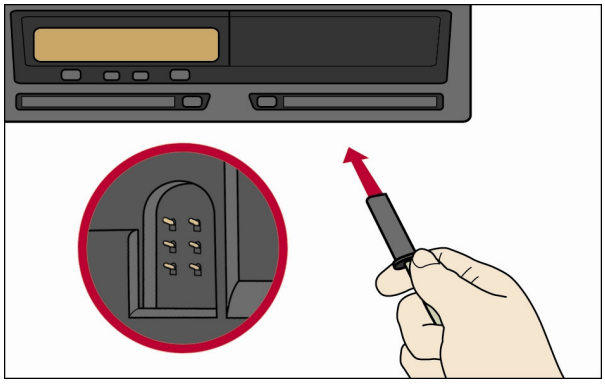
Before performing a VU Download, please ensure a valid Company or Workshop card is inserted into the VU.

3.6.1 Performing a VU Download.

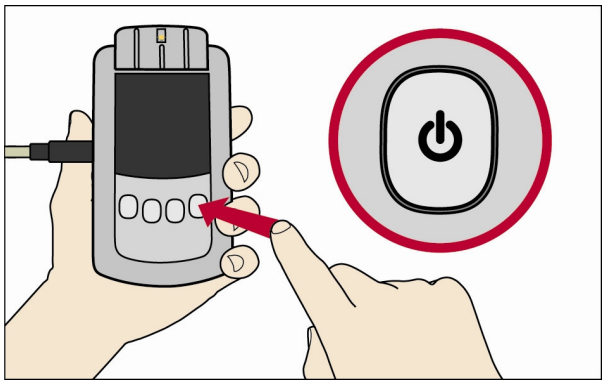
1. Insert the VU cable into the VU connector socket B of the Download Tool.



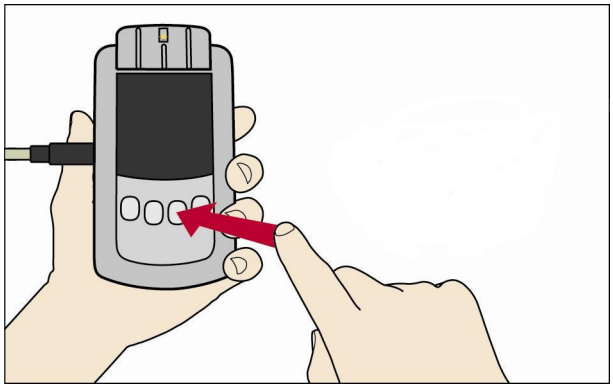
2. Insert the other end of the VU cable into the download connector of the VU.

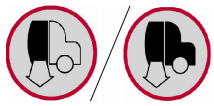


3. Switch on the Download Tool (Press and hold the Power Button for approximately 3 seconds)

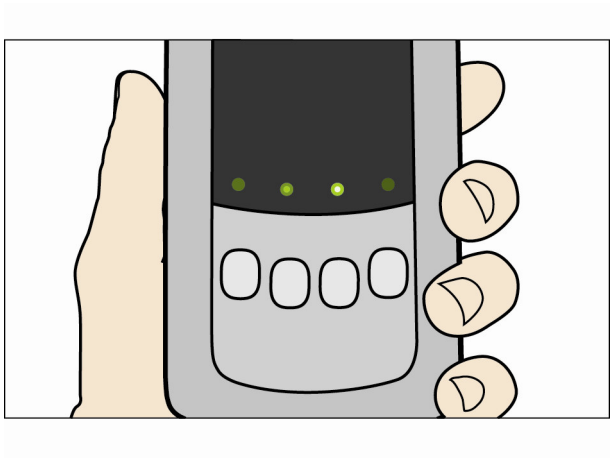


4. Press the Button for a Full VU download, or the Button for a partial download.

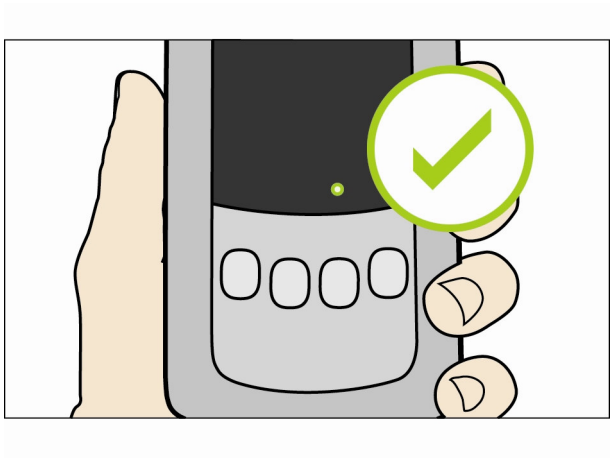




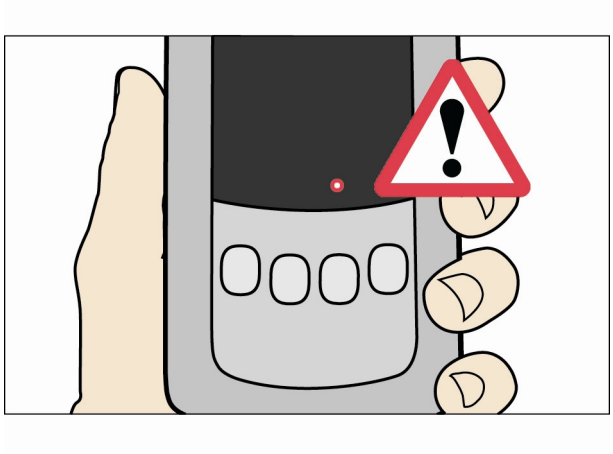
5. As the download is performing the green lights will flash back and forth. Please allocate plenty of time when performing VU Downloads as considerably more information is being handled than when performing a smart card download.



6. If the download is successful a static green light will remain above the VU button that was pressed.

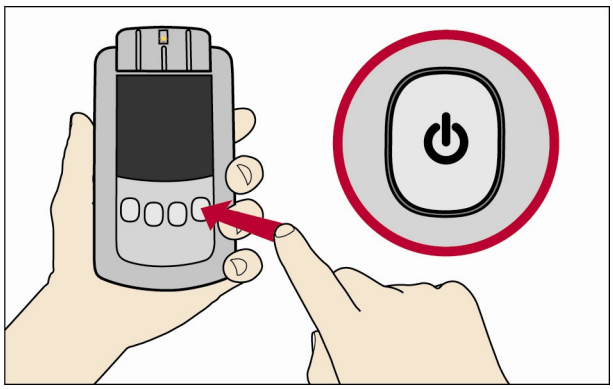


7. If the download fails the light above the VU button that was pressed will be red.

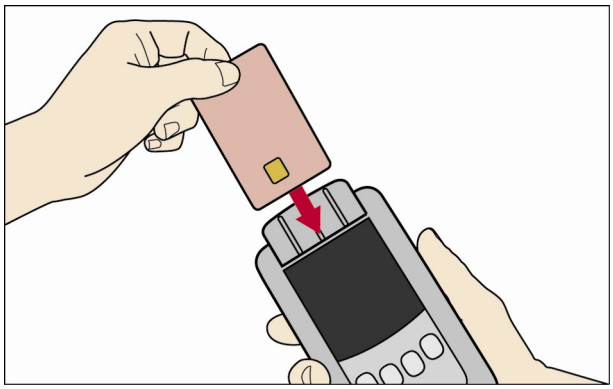


3.6.2 Performing a Smartcard Download.

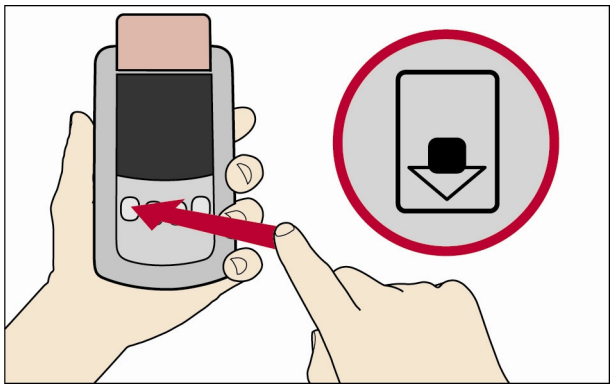
1. Switch on the Download Tool (Press and hold the Power BUTTON for approximately 3 seconds).



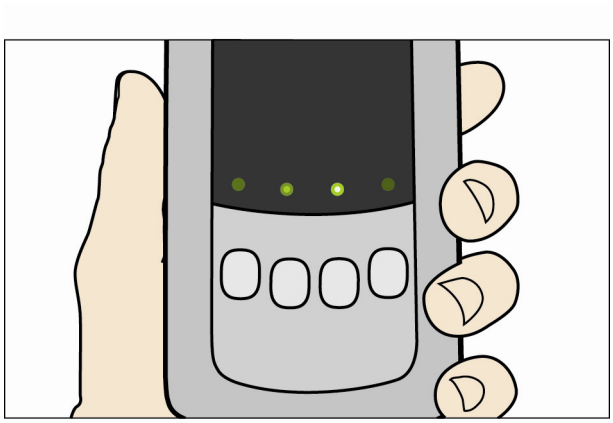
2. Insert the Smartcard into the Download Tool into the smartcard slot. Ensure the chip on the card is face up and pointing down (as displayed in the image on the Download Tools Smartcard slot)



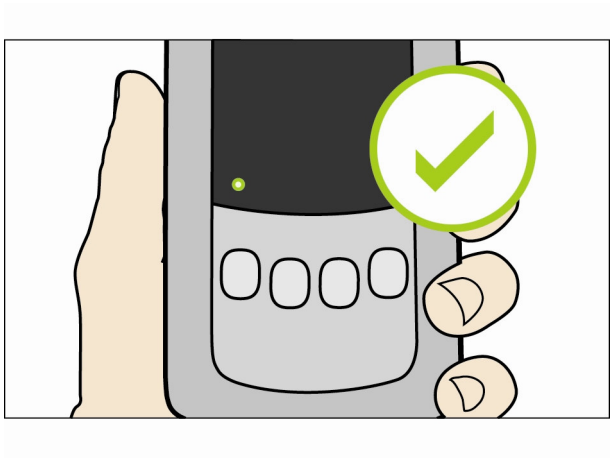
3. Press the Smartcard download button.



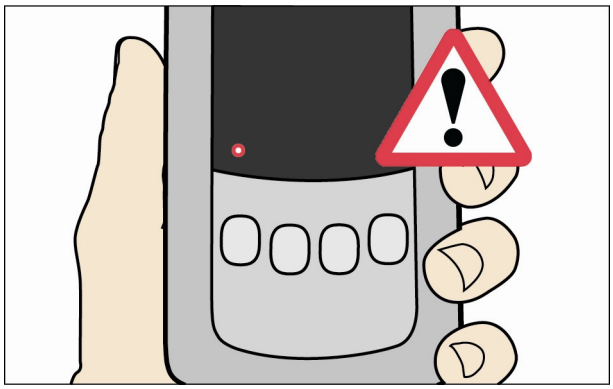
4. As the download is performing the green lights will flash back and forth.



5. If the download is successful a static green light will remain above the Smartcard Button that was pressed.



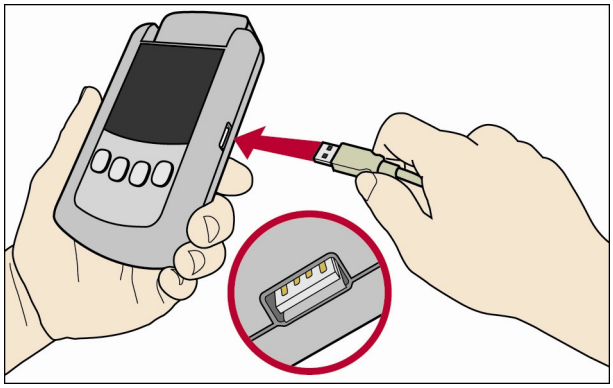
6. If the download fails the LED above the Smartcard Button that was pressed will be red.



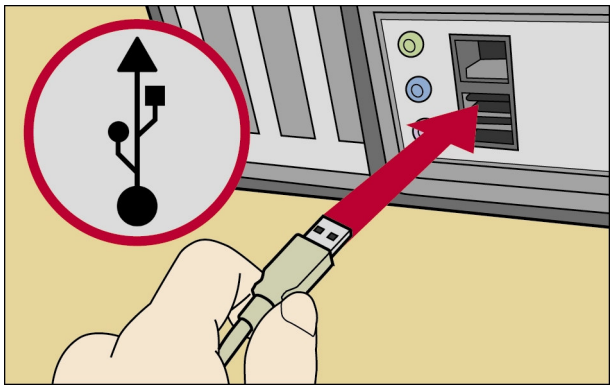
3.7 Uploading

This section will illustrate how to transfer the data from the Download Tool to your computer

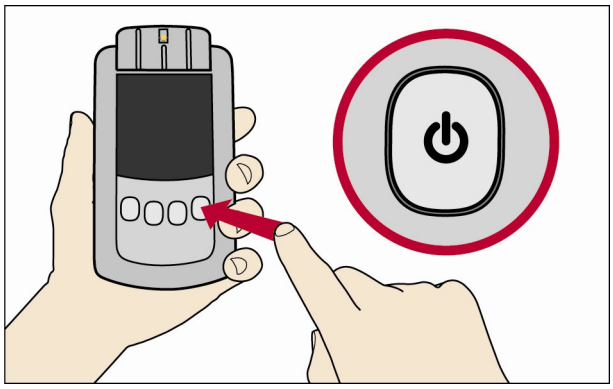
1. Insert the USB cable into socket C of the Download Tool.



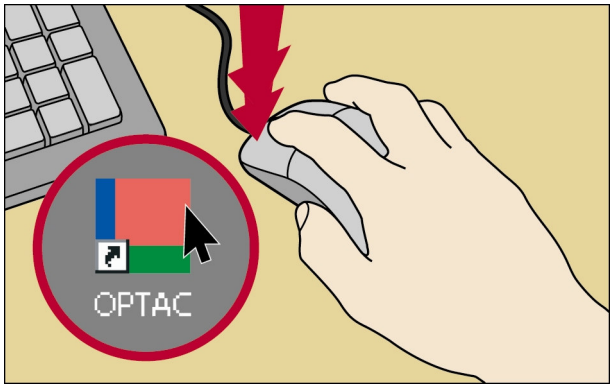
2. Connect the other end of the USB cable to the USB connector on your computer.



3. Switch on the Download Tool (Press and hold the Power Button for approximately 3 seconds).



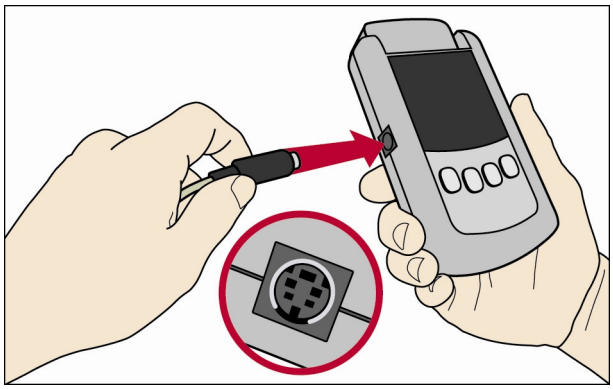
4. The OPTAC tool will be seen as a memory stick by the computer, and files can been viewed through Windows Explorer. Special software such as OPTAC Fleet Viewer can be used to import files directly. For Details on how to perform the Import using the OPTAC Fleet Viewer Software, please refer to the OPTAC Fleet Viewer User Manual.



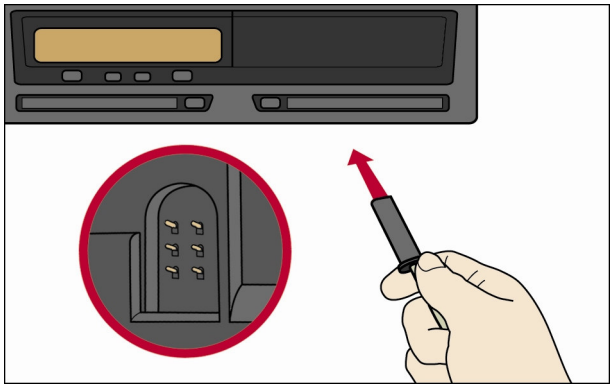
3.8 Special Function Download.

This section will illustrate how to perform a special download.
Note: The special function button must be configured and supported by the OPTAC Fleet Viewer software.

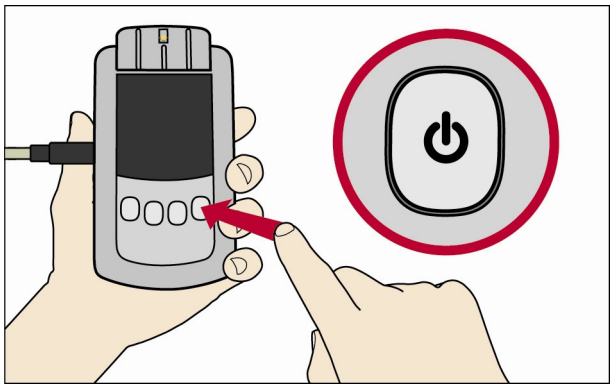
1. Insert the VU cable into the VU connector socket B of the Download Tool.



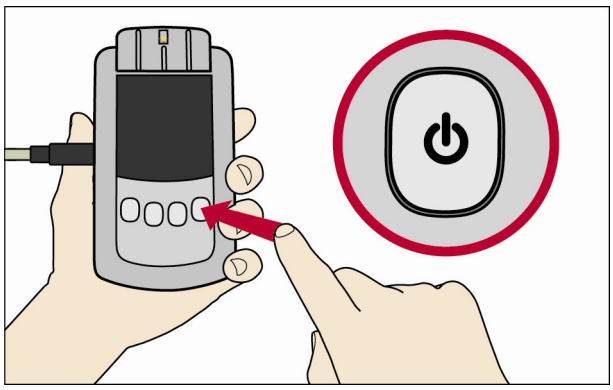
2. Insert the other end of the VU cable into the 6 pin download connector of the VU.



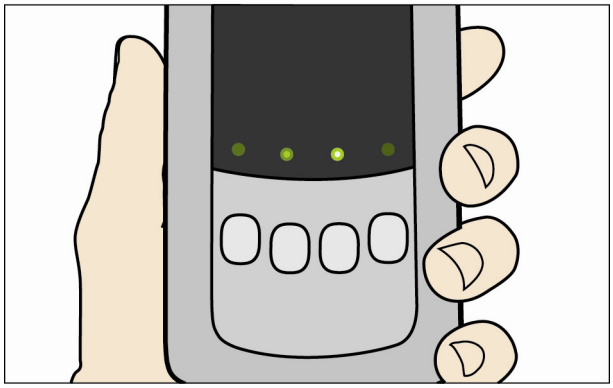
3. Switch on the Download Tool (Press and hold the Power Button for approximately 3 seconds).



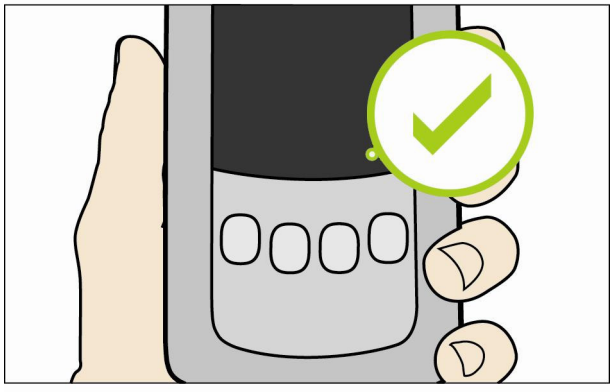
4. Press the Power Button once more. Note it must be a short press or the tool will switch off.



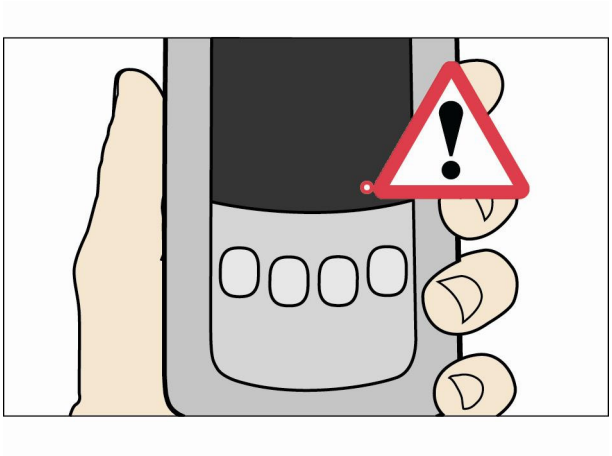
5. As the download is performing the green lights will flash back and forth.



6. If the download is successful a static green light will remain above the On/Off Button that was pressed.



7. If the download fails the LED under the VU Button that was pressed will be red.

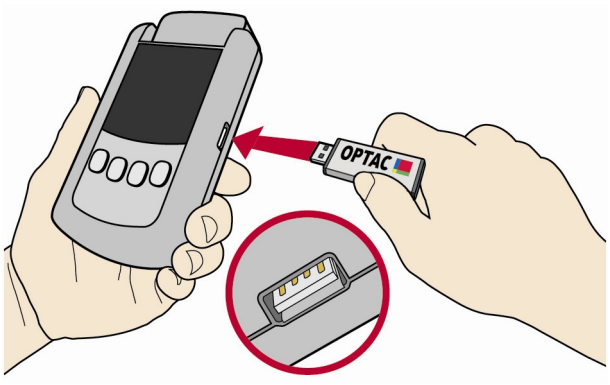


3.9 Copying data to a memory stick.

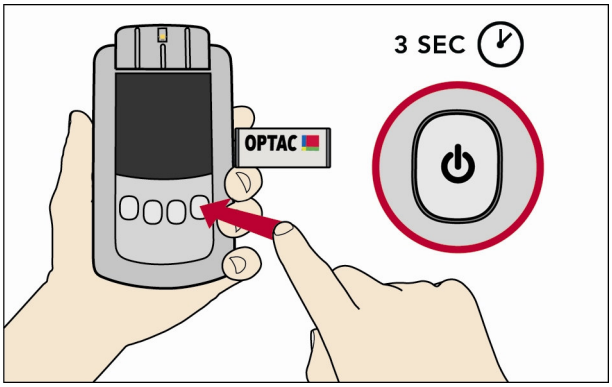
The contents of the download tool can be copied to a memory stick. The memory stick can then be posted back to home base to provide an 'Away from Home' solution.

Important note: the OPTAC download supports the OPTAC memory sticks supplied by Stoneridge, other memory sticks may be compatible but this is not guaranteed. THE MEMORY STICK MUST BE ENTIRELY EMPTY PRIOR TO USE - please erase any files before commencing copy.

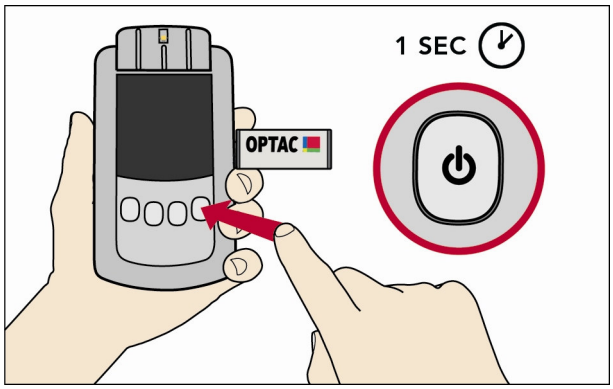
1. Insert a memory stick into socket C of the Download Tool. (The OPTAC image on the stick actually faces the other way than as illustrated in the image)



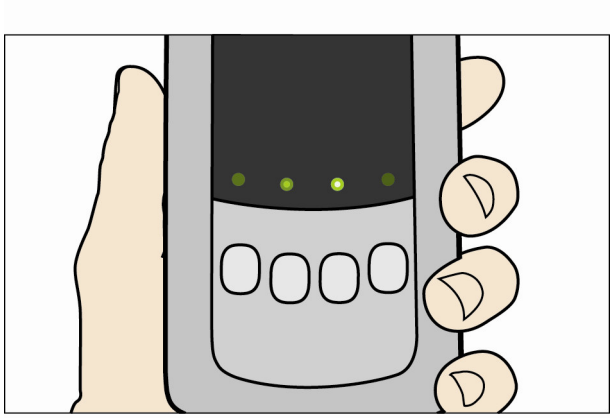
2. Switch on the Download Tool (Press and hold the Power Button for approximately 3 seconds).



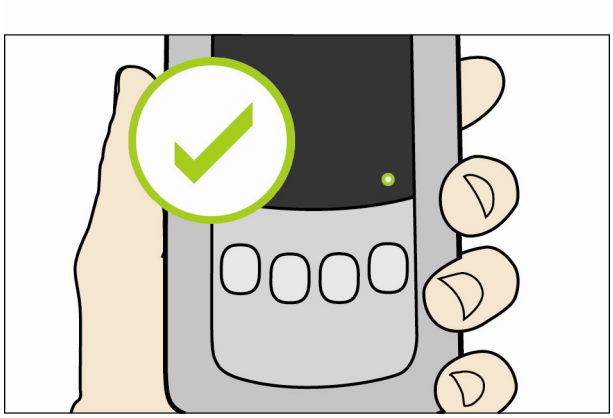
3. Press the Power Button once more. Note it must be a short press or the tool will switch off.



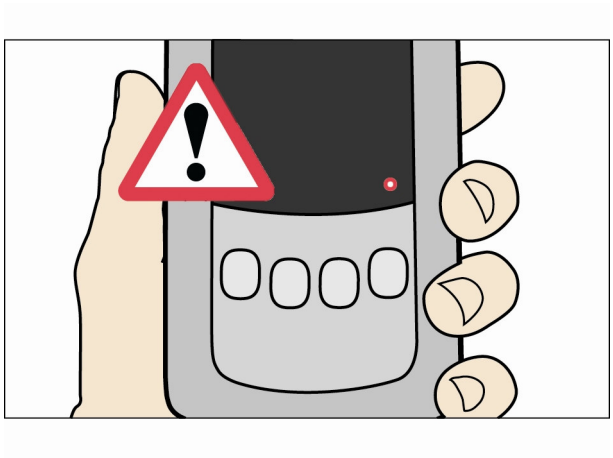
4. As the data is copying to the memory stick the green lights will flash back and forth.



5. If the copying is successful a static green light will remain above the On/Off Button that was pressed.



6. If the download fails the LED above the On/Off Button that was pressed will be red.

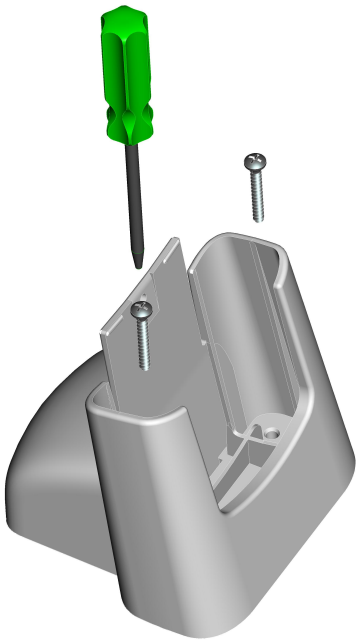


7. Switch off the Download Tool and remove the memory stick. Do NOT remove the memory stick while the tool is SWITCHED ON.

3.10 Mounting the Security Cradle.

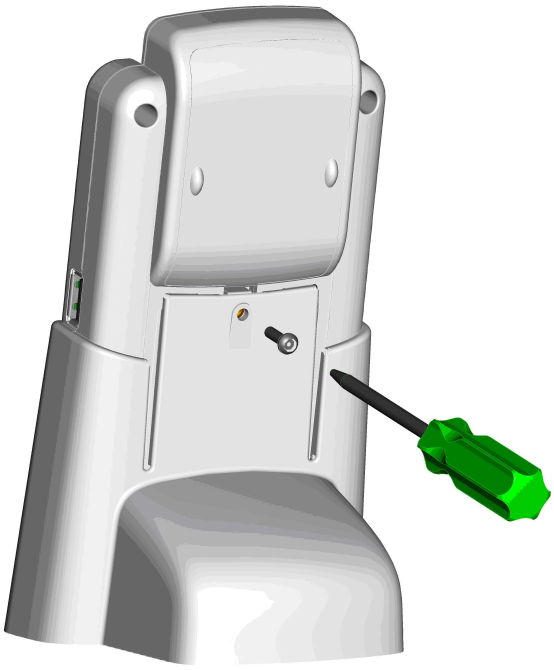
To mount the security cradle a solid wooden surface such as a desk or work bench will be required.

1. Using a screw driver, screw the 2 self tapper screws through the holes in the bottom of the security cradle into the desk, as indicated in the image below.



2. Insert the OPTAC Download Tool into the Security Cradle.

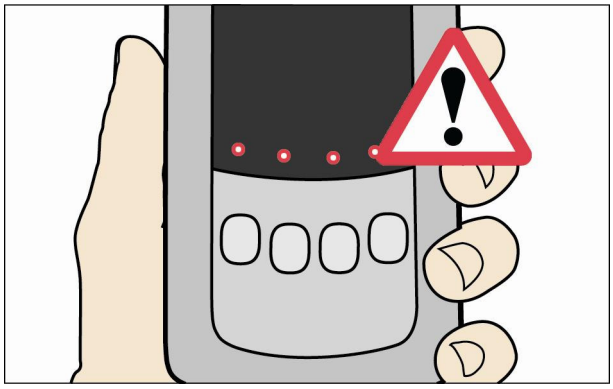
3. Using the security screw driver provided, screw the security screw through the hole on the back of the security cradle into the OPTAC Download Tool, as indicated in the figure below.



3.11 Problem Solving

Here are some of the most common problems encountered when using the OPTAC Download Tool. If you experience any of the listed problems with the OPTAC Download Tool, please follow the instructions given below and, if the problem persists, contact the Stoneridge Electronics technical helpdesk on 0870 887 9202.

- **All four LEDs are illuminated Red**.



This means the OPTAC Download Tool is experiencing an internal error. This may be simply caused by the memory being full.
Connect the OPTAC Download Tool to your computer and save the existing data into your OPTAC software package and then delete the downloaded files no longer required.
Note: Do NOT delete the “configuration.dat” and “settings.dat” files.

- If a **VU download fails**, please check the connections between the VU and the OPTAC download tool.
  Please also ensure that the VU is in the correct mode of operation – by inserting either a Company, Workshop or Control card.
  Ensure that the batteries have sufficient power. This is indicated by a Green light illuminating when switched on (red indicates low batteries).

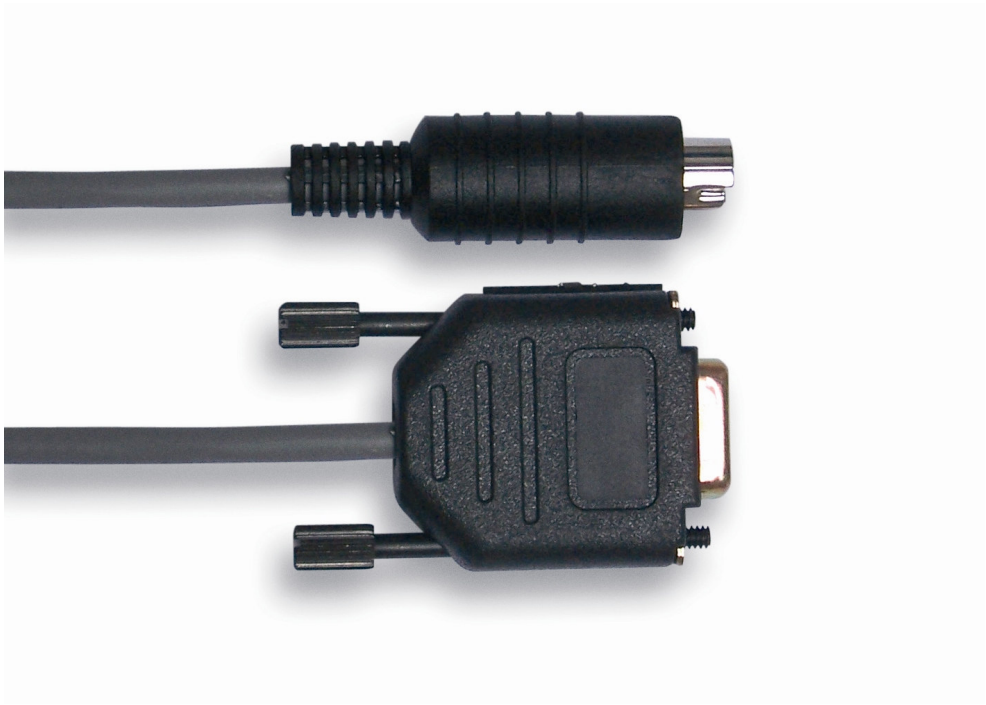
- If the **Smartcard download fails**, please ensure a valid driver card is inserted in the correct position. The Smartcard chip should be pointing down and facing you during insertion.
  Ensure that the batteries have sufficient power. This is indicated by a Green light illuminating when switched on (red indicates low batteries).

- If a red light flashes when the Download Tool is initially switched on, this indicates that batteries are low and should be replaced.

4 UPGRADING THE OPTAC DOWNLOAD TOOL

The OPTAC Download Tool is designed in such a way, that it can be upgraded. This means that any new features or enhancements can be downloaded from a PC or Laptop into the OPTAC Download Tool.

This will require the use of the OPTAC Download Tool Upgrade Cable, shown below. Part Number 7780-816.



This will also require the use of the OPTAC Download Tool Upgrade software. This can be found on either the OPTAC Fleet Viewer CD, or the OPTAC Download Tool Configuration mini-CD.

Instructions for the Upgrade can be found on these CD's.